

FIG. 3

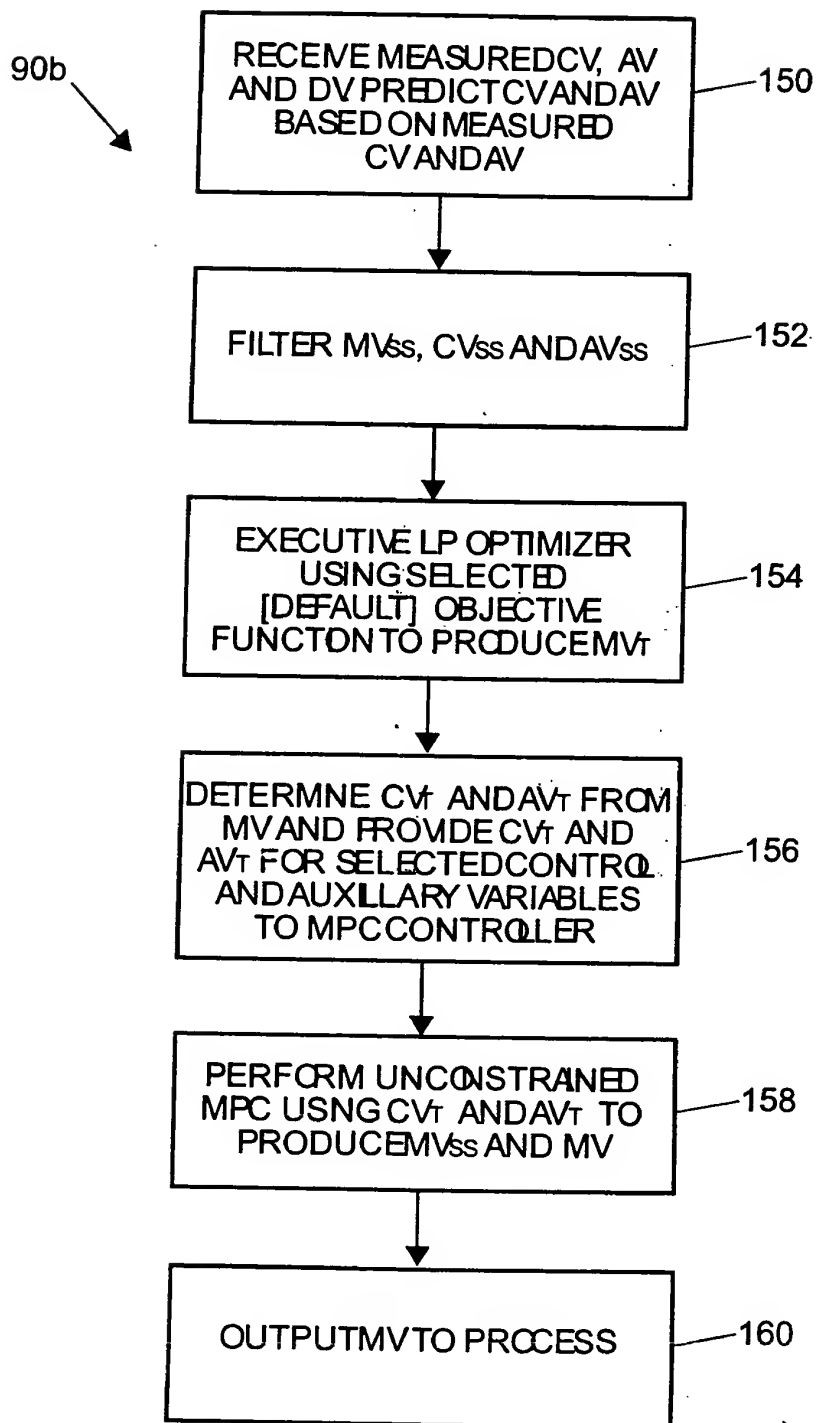


FIG. 4

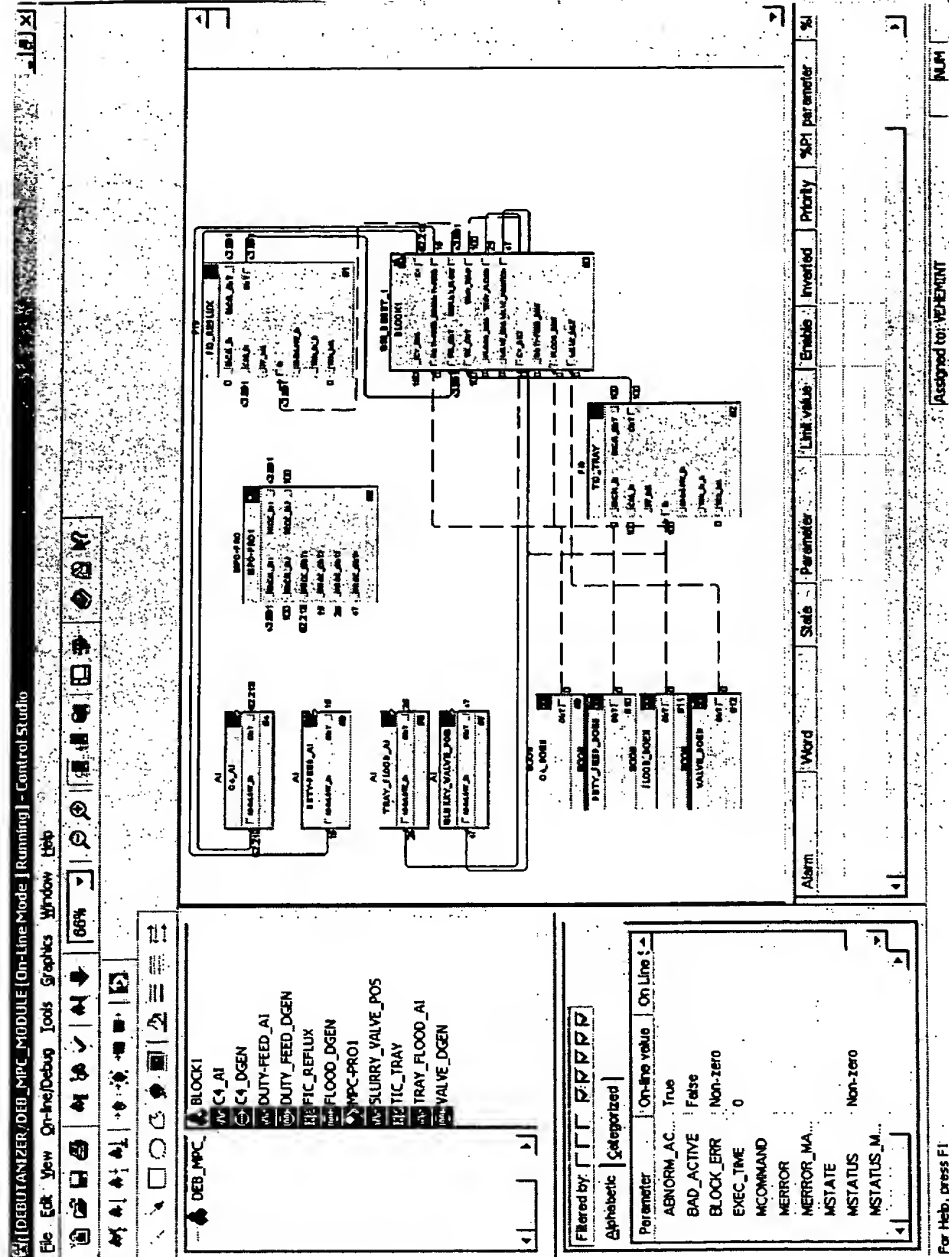


FIG. 5

MPC-PRO1 Properties

Controlled | Manipulated | Disturbance | Constraint | Deleted Items

Description	Low Limit	High Limit	Path	Fail Condition	Optimization	Priority	Profit
REBOILER DUTY/FEED	0	100	/DEB MPC MODULE/DUTY/FEED AMOUNT	Manual	Maximize	0	0
TRAY FEED/OUTLET	5	95	/DEB MPC MODULE/SLURRY_VALVE_POS/OUT	No Action	(none)	0	0
SLURRY-REBOILER VAL...	5	95	/DEB MPC MODULE/SLURRY_VALVE_POS/OUT	No Action	(none)	0	0

Total number of process inputs: 2    Total number of process outputs: 4    Hiding variable rate: 1 sec

Advanced

Buttons: Add, Move, Modify, Delete

FIG. 6

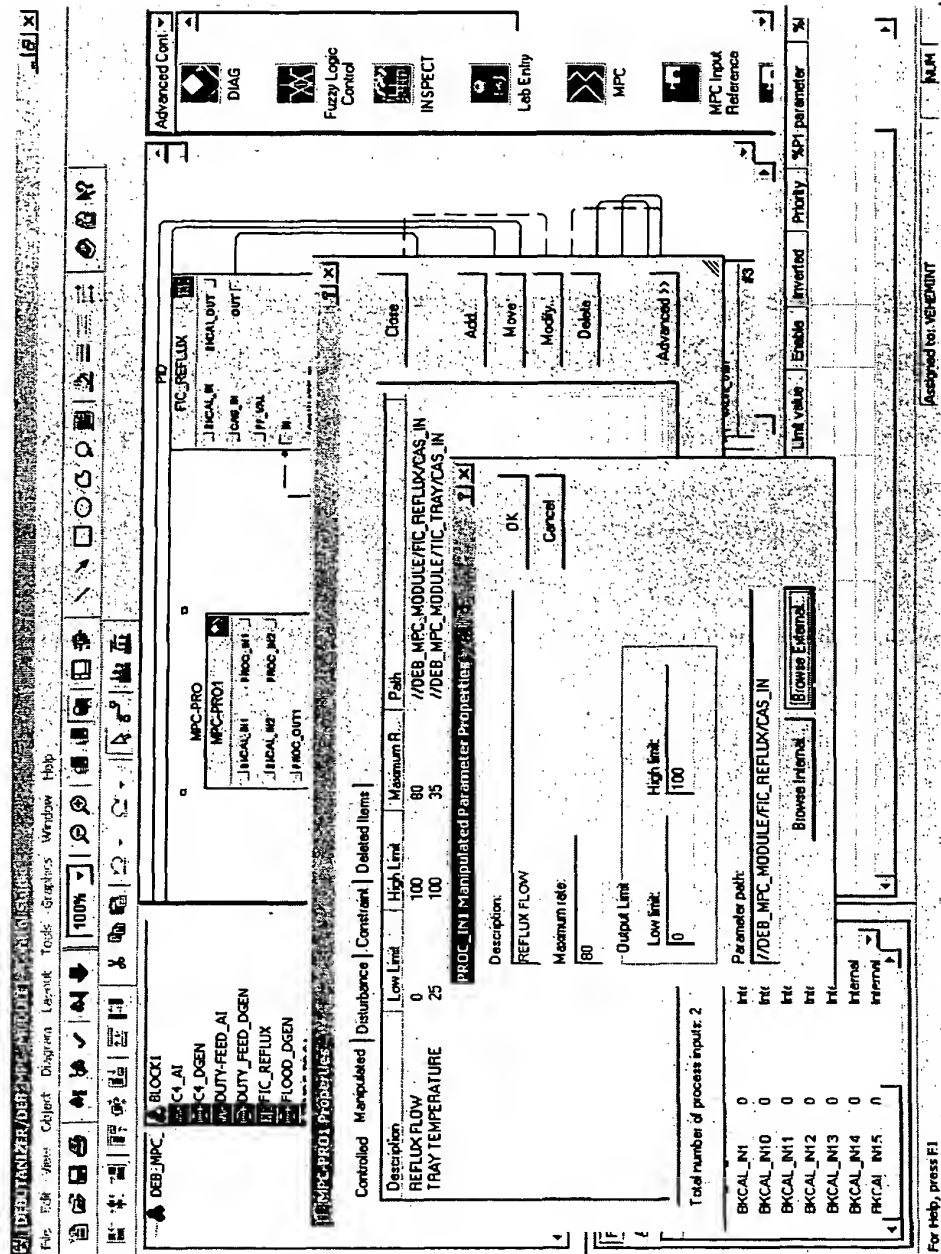


FIG. 7

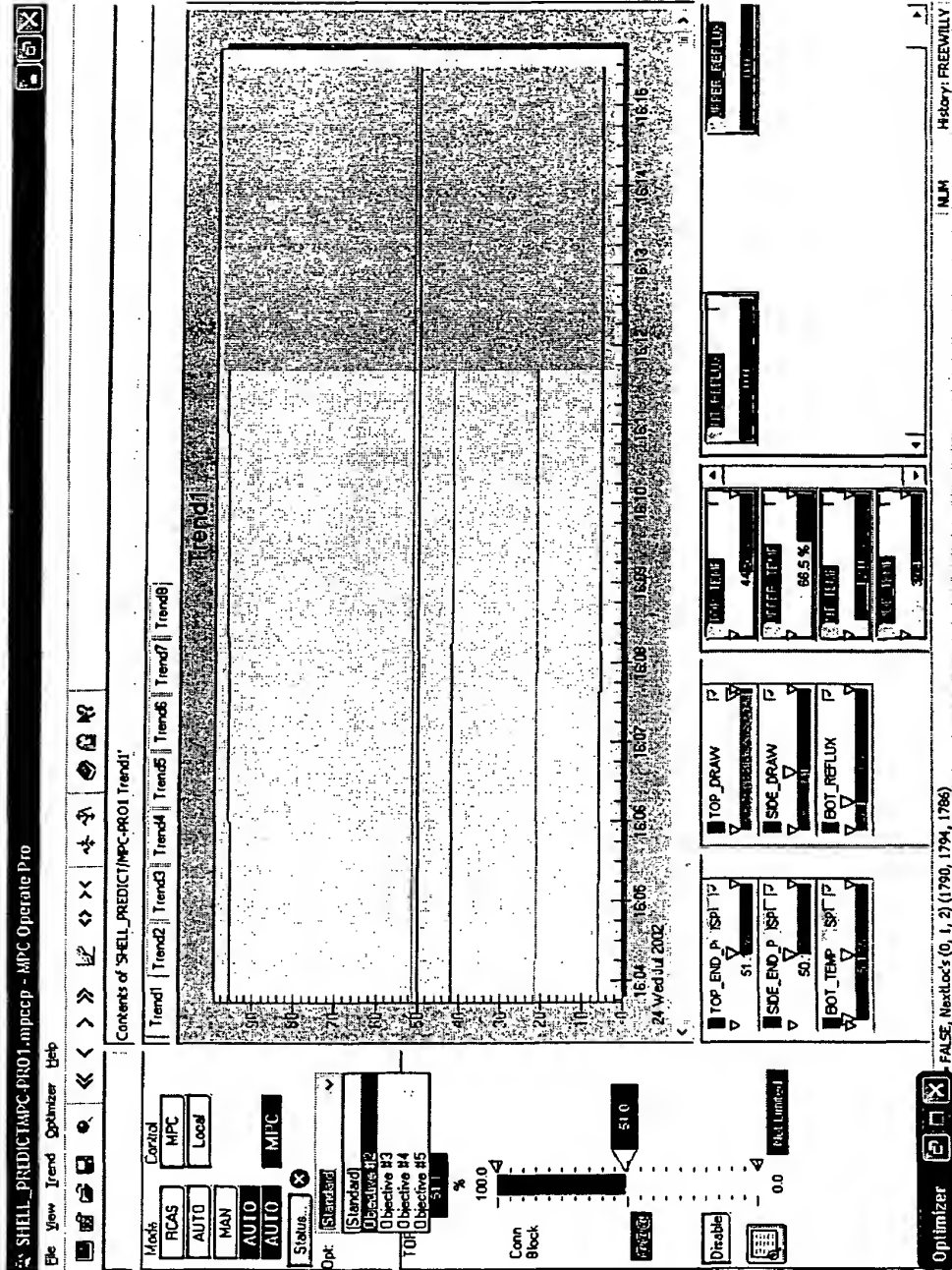


FIG. 8



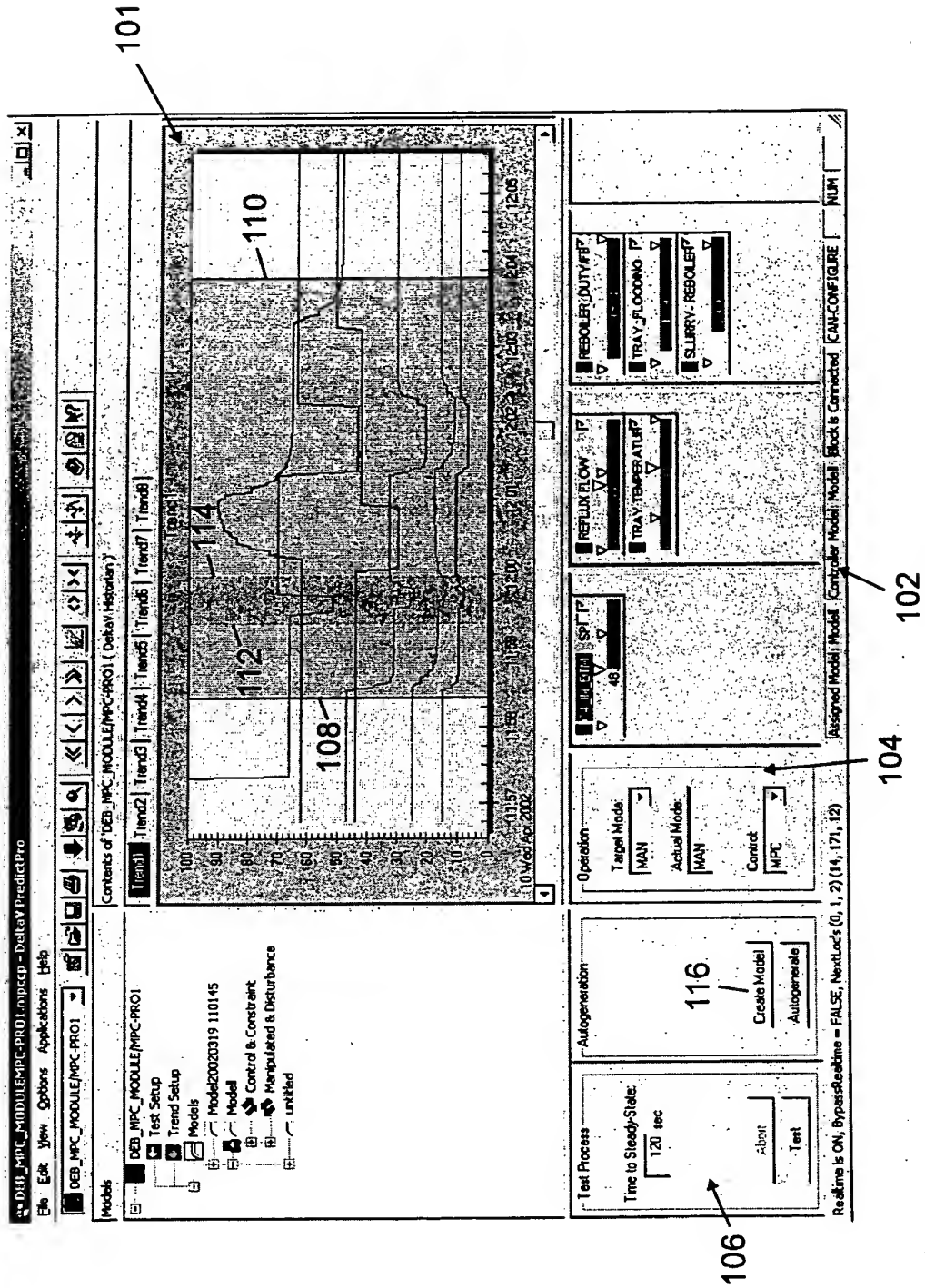


FIG. 9

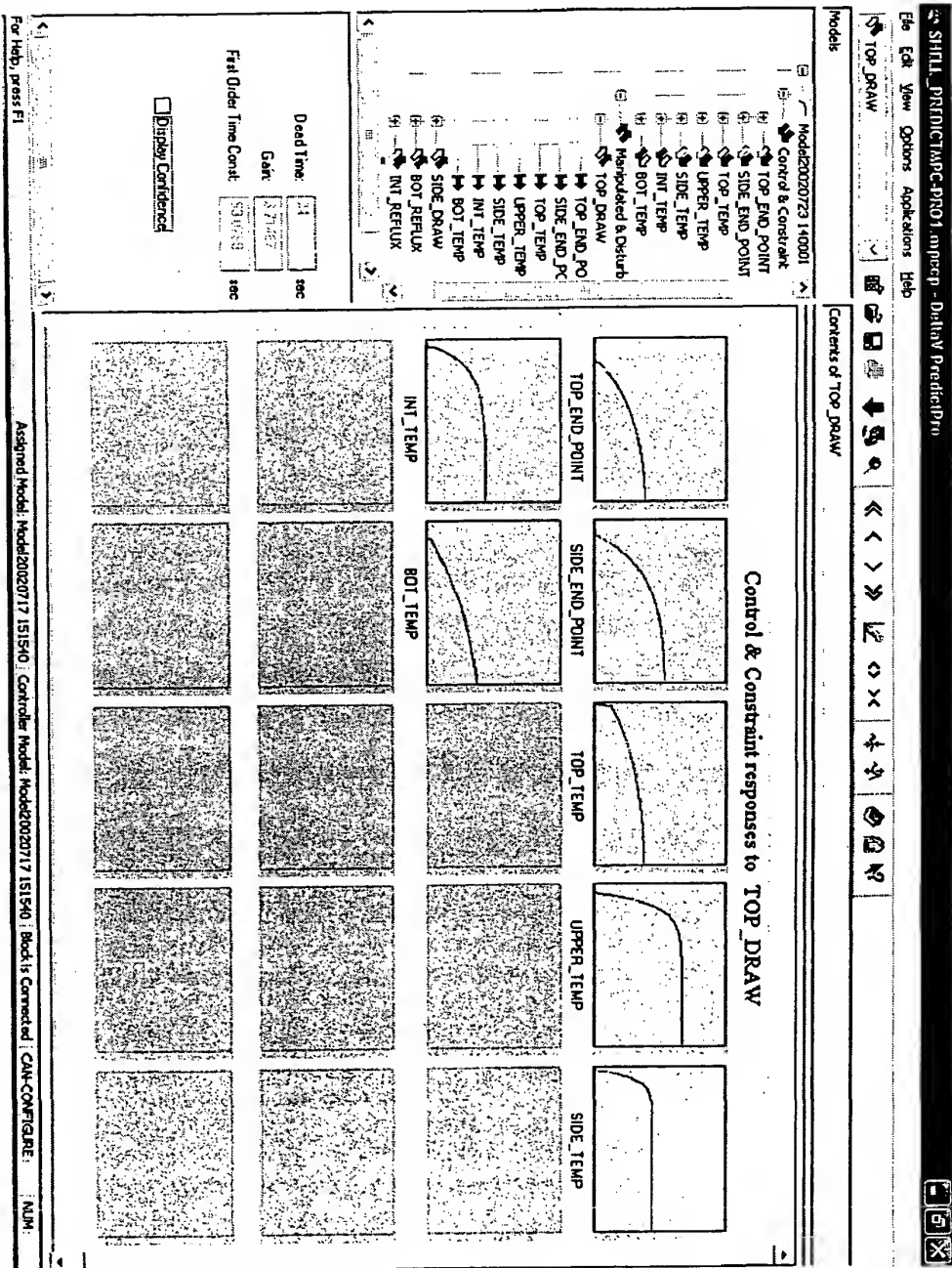


FIG. 10

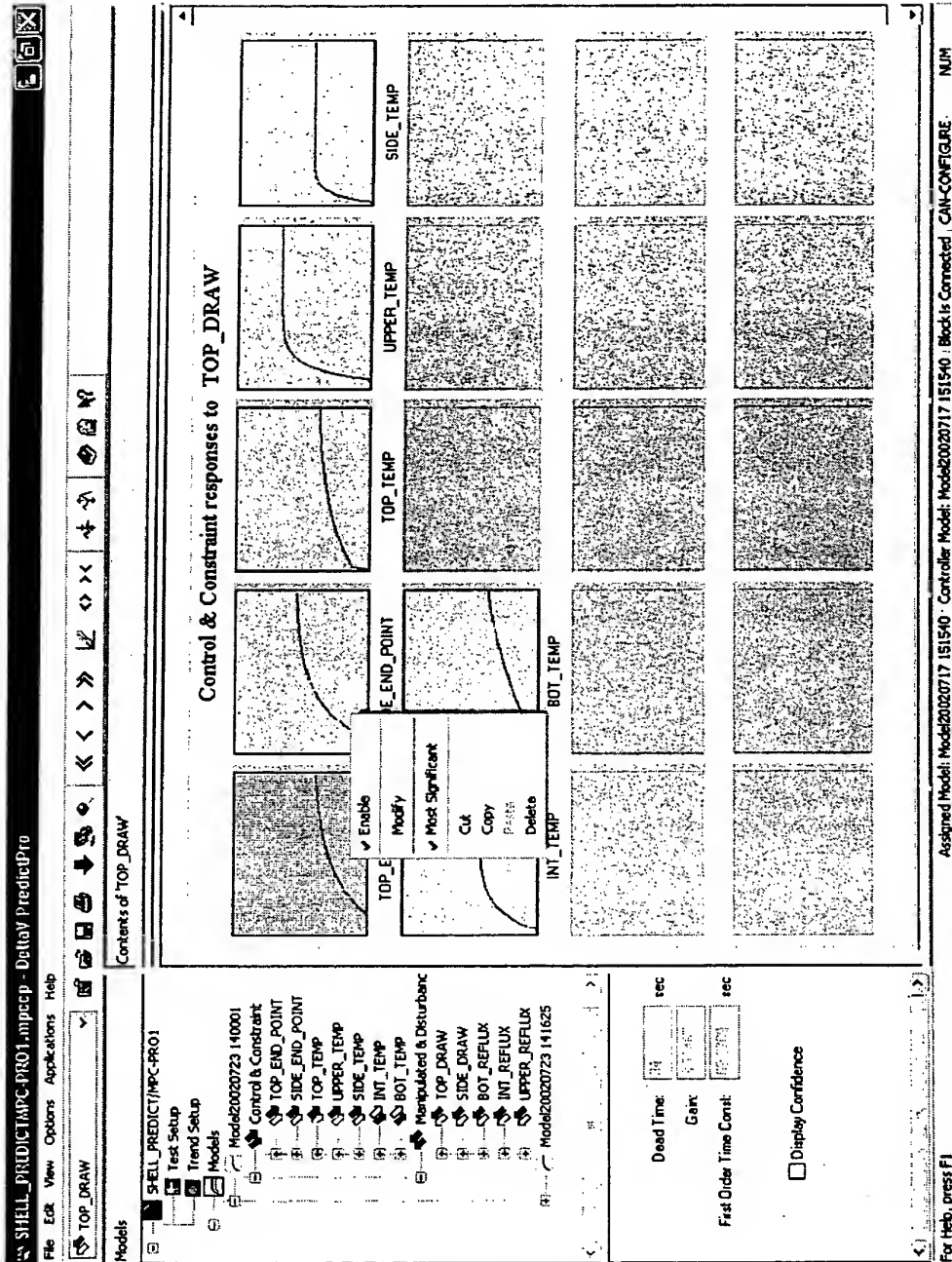


FIG. 11

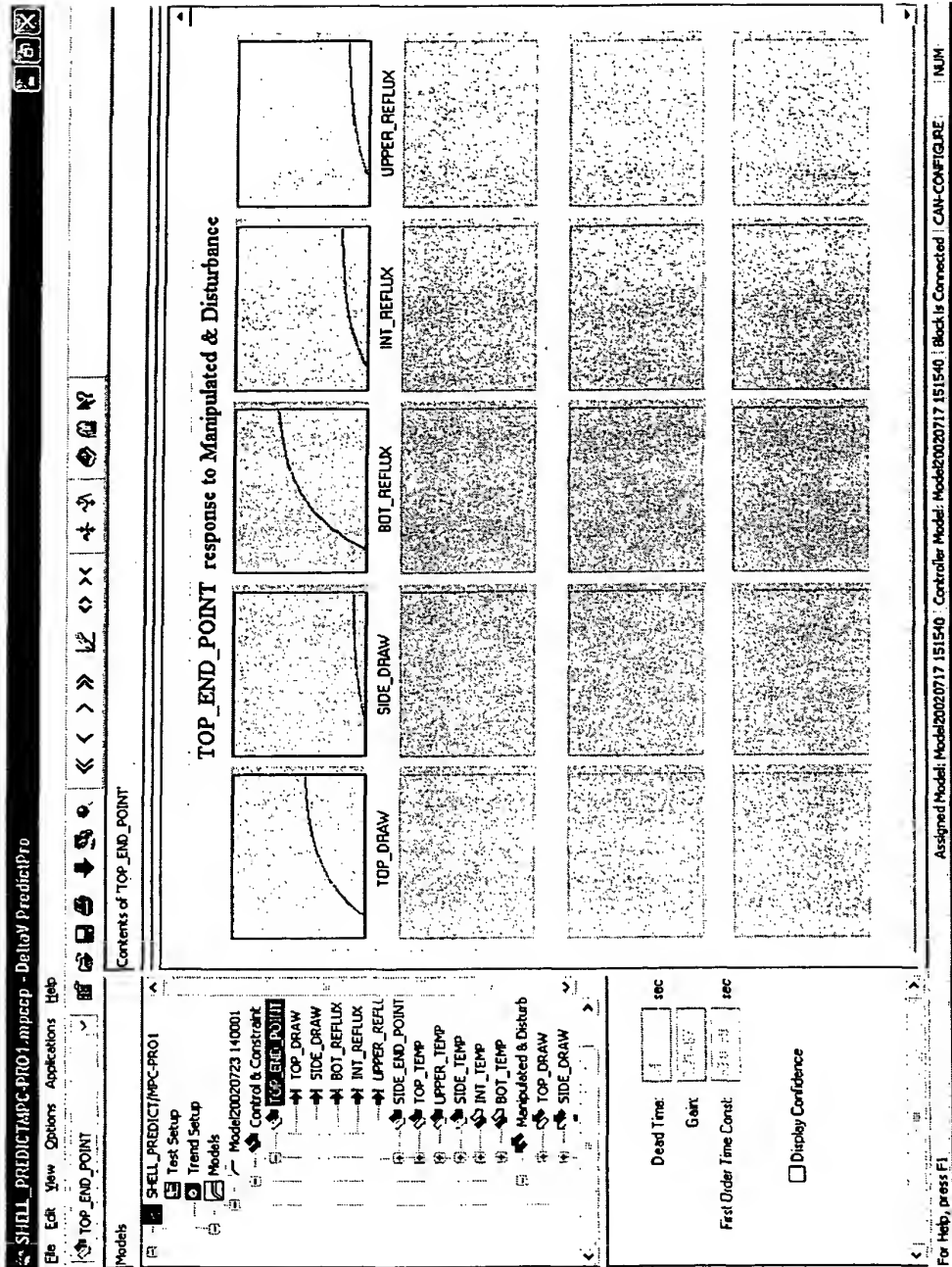
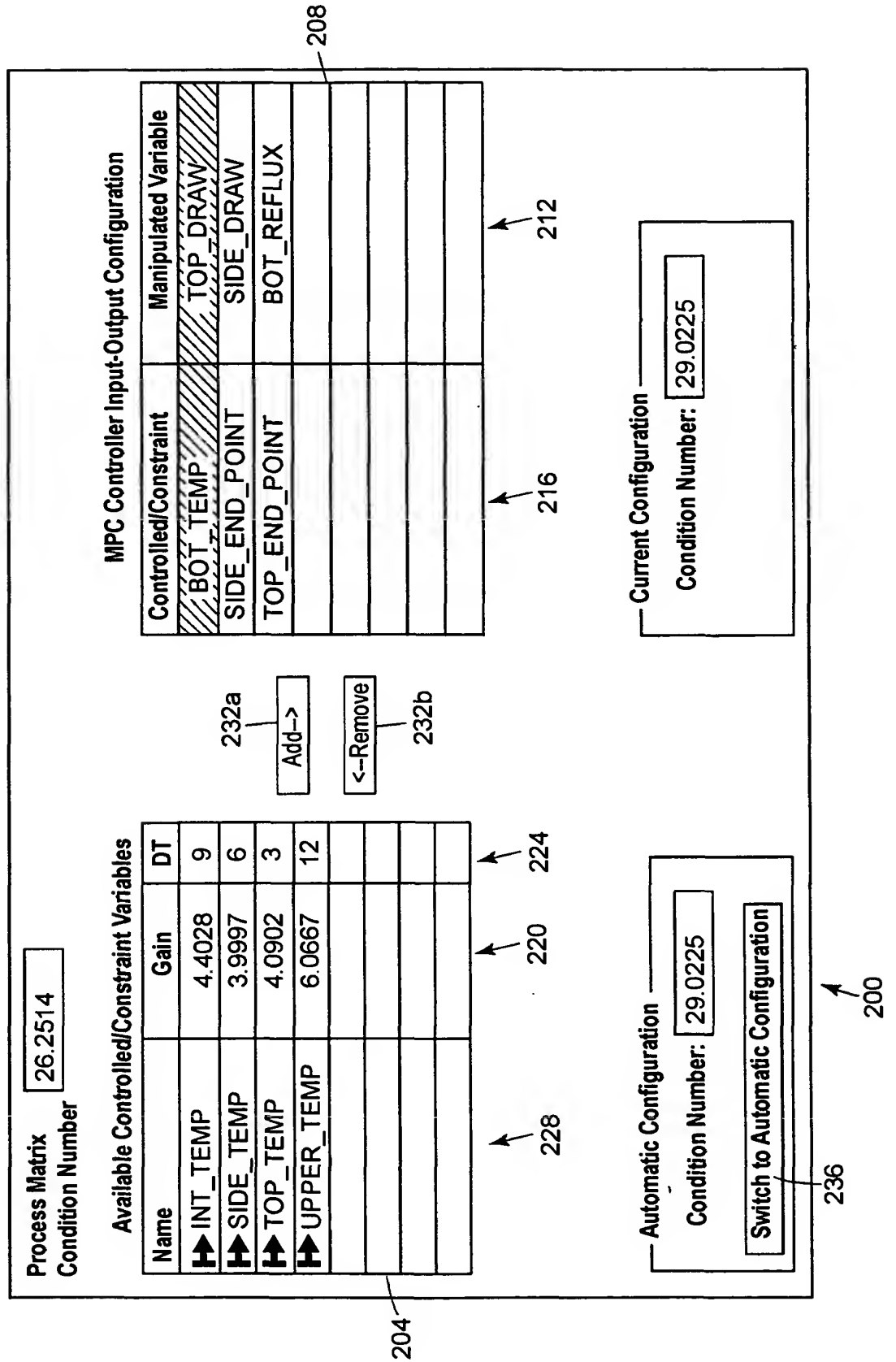
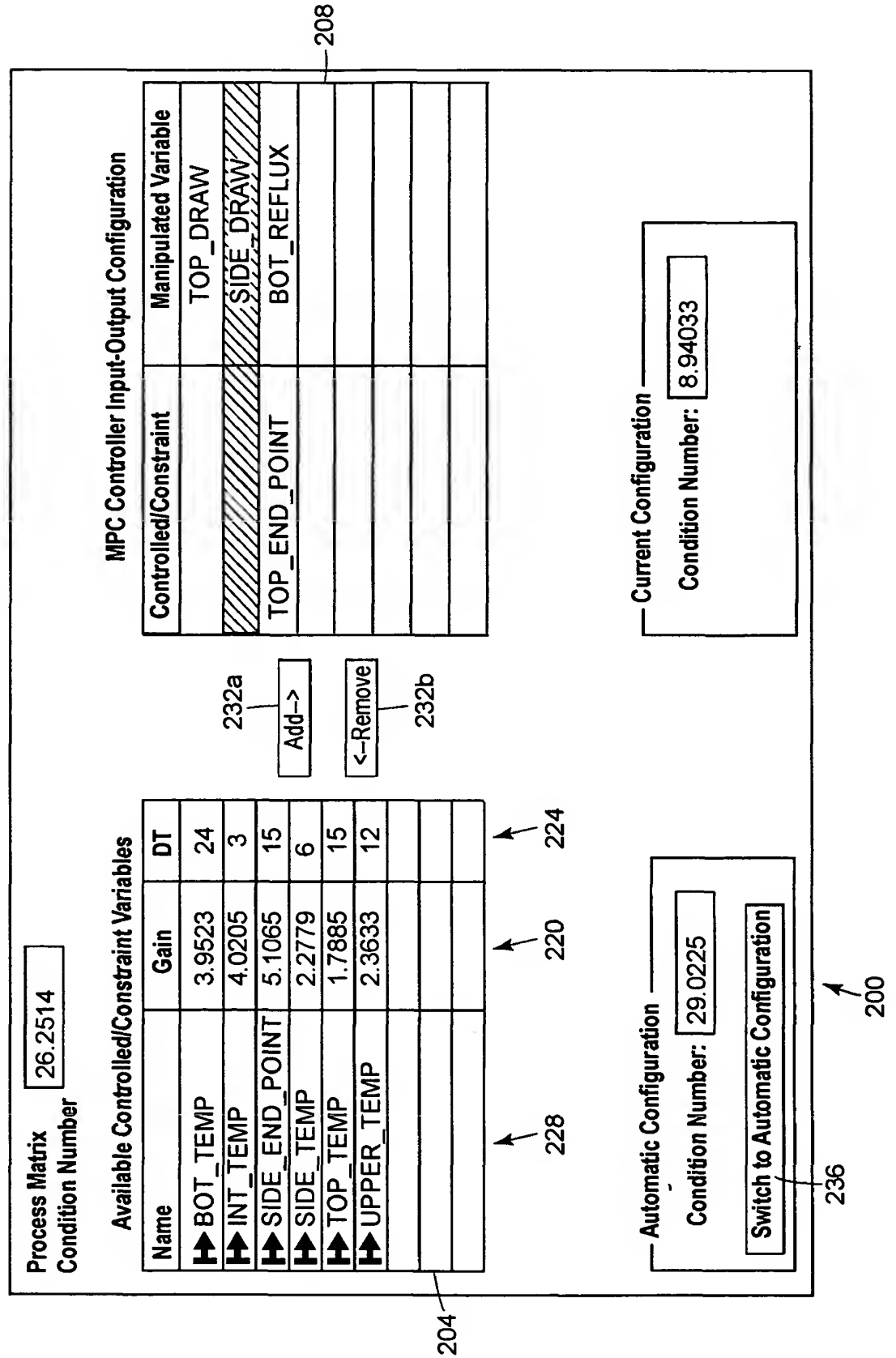


FIG. 12

FIG. 13



**FIG. 14**



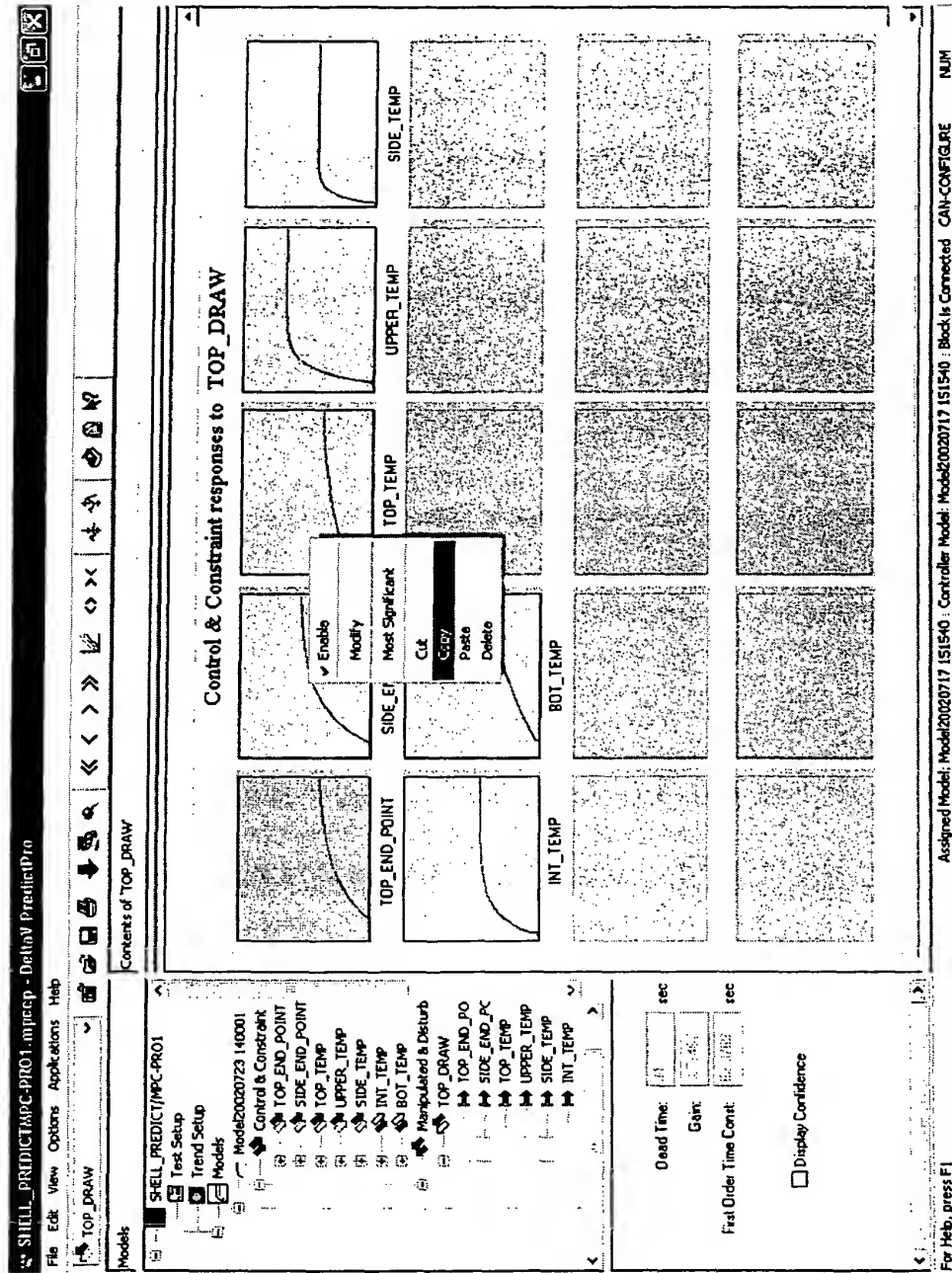


FIG. 15

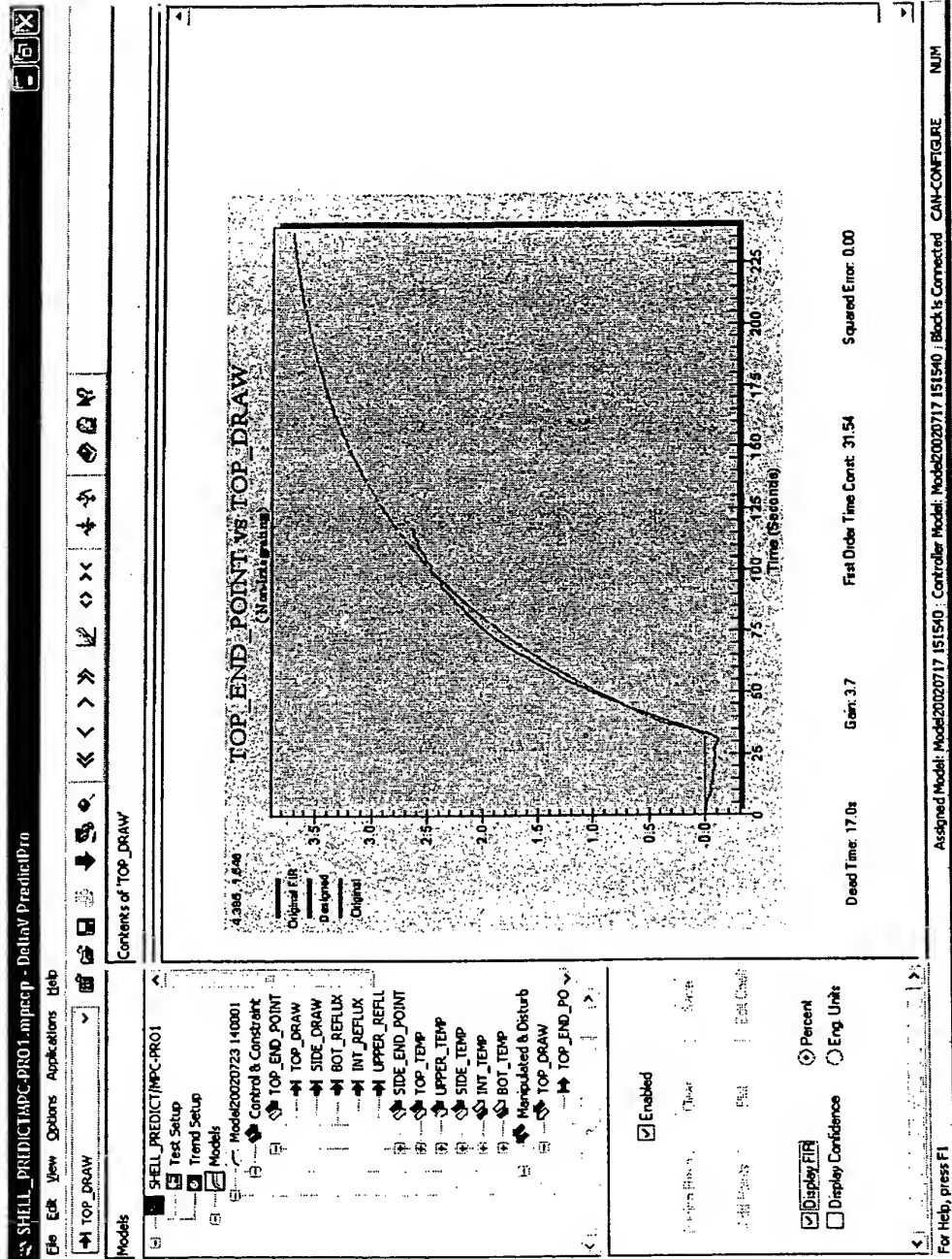


FIG. 16



**Optimizer**

**Inputs (MV)**

Descriptor	Current Value	Target Value	Units	Unit Value	Min/Max
TOP_DRAW	96.85	100.00	%	0.10	None
SIDE_DRAW	41.50	41.08	%	0.10	None
BOT_REFLUX	20.48	18.38	%	0.10	Min

**Outputs (CV, AV)**

Descriptor	Current Value	SP	Target SP	TSP Active	Prediction	Units	Unit Val.
TOP_END_POINT	51.10	51.00	51.00	Yes	51.10	%	1.00
SIDE_END_POINT	50.07	50.00	50.00	Yes	50.10	%	1.00
TOP_TEMP	44.40		45.30	Not in ctrl	44.31	%	1.00
UPPER_TEMP	66.58		70.84	Not in ctrl	66.79	%	1.00
BOT_TEMP	4.85	50.00	5.03	Yes	4.89	%	1.00
INT_TEMP	11.84		10.90	Not in ctrl	11.94	%	1.00
SIDE_TEMP	39.32		40.94	Not in ctrl	39.70	%	1.00

Target SP de/activation - rightclick on Yes/No

Unit Value change - rightclick on value

Minimize/Maximize/None change - rightclick on Min/Max/None

Priority change - rightclick on value

Close

FIG. 17

MPCDiagnostics - SHELL\_PREDICT/MPC-PRO1

File Help

SHELL\_PREDICT/MPC-PRO1  
Control and Constraints

Type	Description	Value	Status	Standard De...
>	TOP_END_POINT	51.0082	GoodNonCa...	
>	SIDE_END_POINT	50.0062	GoodNonCa...	
>	BOT_TEMP	2.1087	GoodNonCa...	
>	TOP_TEMP	43.6979	GoodNonCa...	
>	UPPER_TEMP	67.4156	GoodNonCa...	
>	INT_TEMP	9.38708	GoodNonCa...	
>	SIDE_TEMP	38.5107	GoodNonCa...	

Disturbance

Type	Description	Value	Status
Error	INT_REFLUX	0	
Error	UPPER_REFLUX	0	

Manipulated

Type	Description	F	Value	Status	Back Cal Value	Back Cal Status	Standard Deviation
>	TOP_DRAW		99.7101	GoodCascade	99.7101	GoodCascade	
>	SIDE_DRAW		40.981	GoodCascade Const	40.981	GoodCascade	
>	BOT_REFLUX		18.6473	GoodCascade Const	18.6473	GoodCascade	

Block Abnormal Conditions - Description

Type	Description
Failure	

Ready

FIG. 18